FIG.1

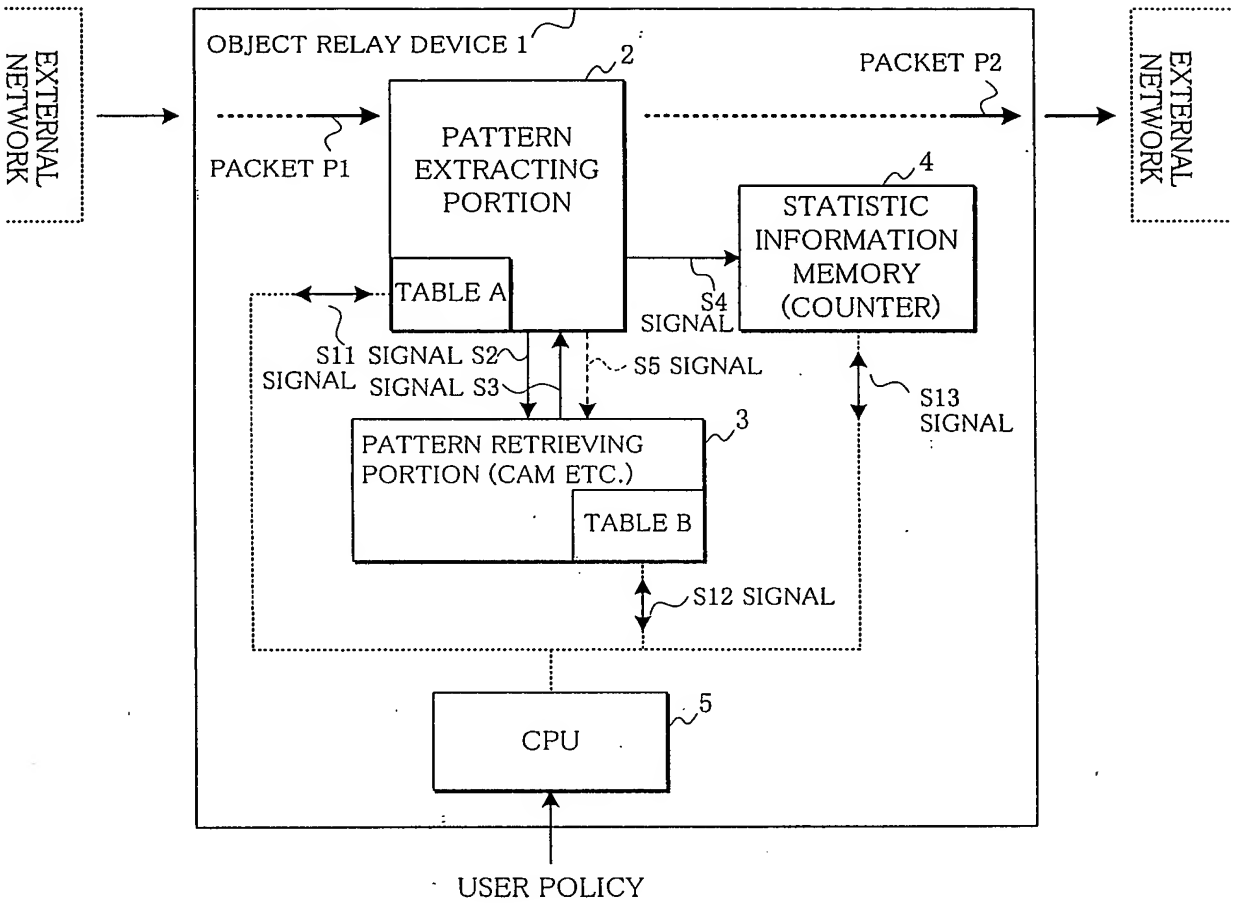

FIG.2

TABLE A (TABLE FOR REFLECTING USER POLICY TO PATTERN EXTRACTION)					
ENT	PACKET TYPE	ERROR TYPE	PATTERN EXTRACTION POSITION ((OFFSET 1, LENGTH 1), (OFFSET 2, LENGTH 2),...)	STATISTIC INFORMATION BASE ADDRESS	LEARNING FLAG
0					
1 (EX.1)	{ 0, 0800, 6 }	0 (ABSENCE)	{ (208, 32), (288, 16) }	80000000	0 (ABSENCE)
1 (EX.2)	{ 1, 0800, 6 }	1 (PRESENCE)	{ (116, 12), (240, 32), (320,16) }	80000000	1 (PRESENCE)
0					
※PACKET TYPE EXAMPLE: { (PRESENCE/ABSENCE OF TAG: 0 ABSENCE, 1 PRESENCE), (TYPE VALUE: 0x0800 (IP)), (PROTOCOL VALUE: 6 (TCP)) }					

FIG.3A

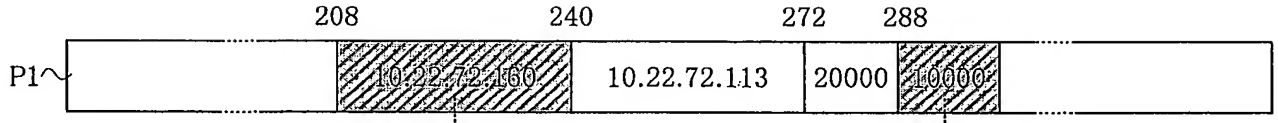

FIG.3B

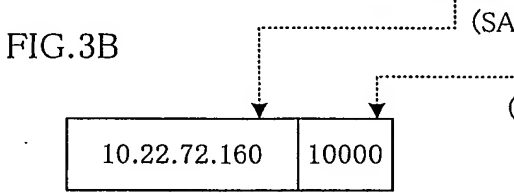

FIG.4A

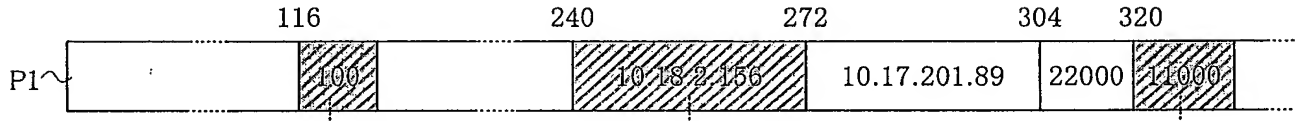

FIG.4B

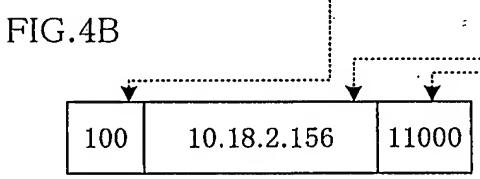

FIG.5

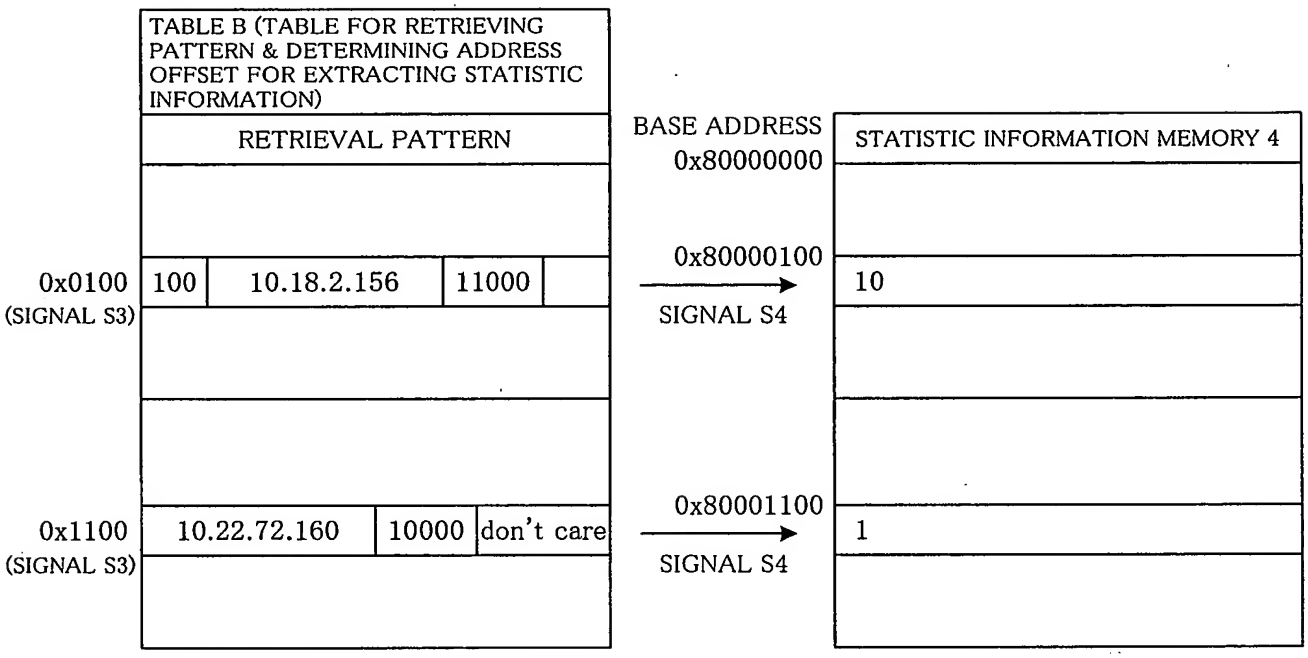

FIG.6A

PATTERN	TABLE A -1 { PATTERN EXTRACTION POSITION (OFFSET 1, LENGTH 1), (OFFSET 2, LENGTH 2), ...}
(α)	{ (96, 16), (176, 8), (184, 8) }
(β)	{ (96, 16), (128, 16), (208, 8), (216, 8) }
	⋮

FIG.6B

TABLE A -2			
ADDRESS	STATISTIC INFORMATION BASE ADDRESS	LEARNING FLAG	PATTERN EXTRACTION POSITION {(OFFSET 1, LENGTH 1), (OFFSET 2, LENGTH 2),...}
0x0008	80000000	1 (PRESENCE)	{ (116, 12), (240, 32), (320, 16) }
0x0009			
0x000a	80000000	0 (ABSENCE)	{ (208, 32), (288, 16) }

FIG.7

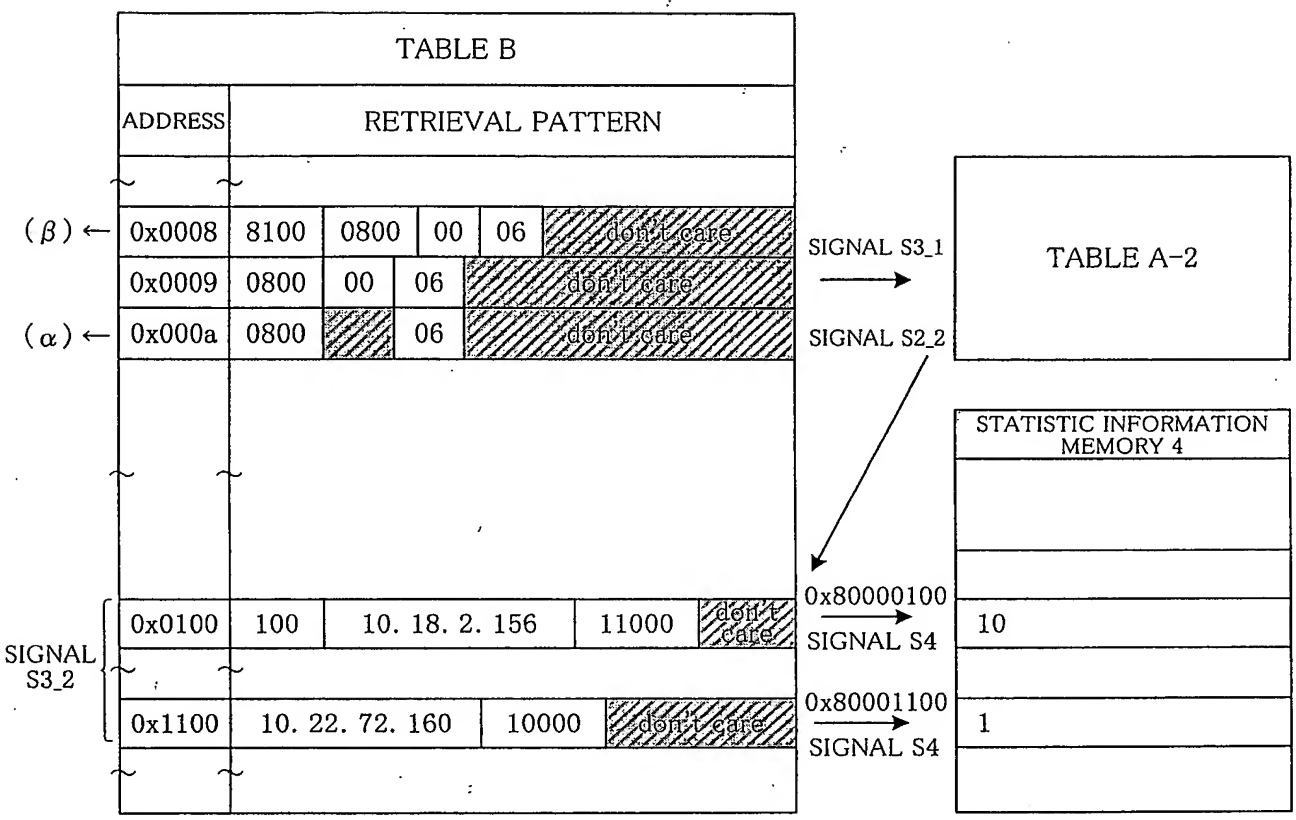
TABLE B
ADDRESS
RETRIEVAL PATTERN
(β)
0x0008
8100
0800
00
06
don't care
0x0009
0800
00
06
don't care
(α)
0x000a
0800
06
don't care
SIGNAL S3_1
SIGNAL S2_2
TABLE A-2
STATISTIC INFORMATION MEMORY 4
SIGNAL S3_2
0x0100
100
10. 18. 2. 156
11000
don't care
0x80000100
SIGNAL S4
10
0x1100
10. 22. 72. 160
10000
don't care
0x80001100
SIGNAL S4
1

FIG.8

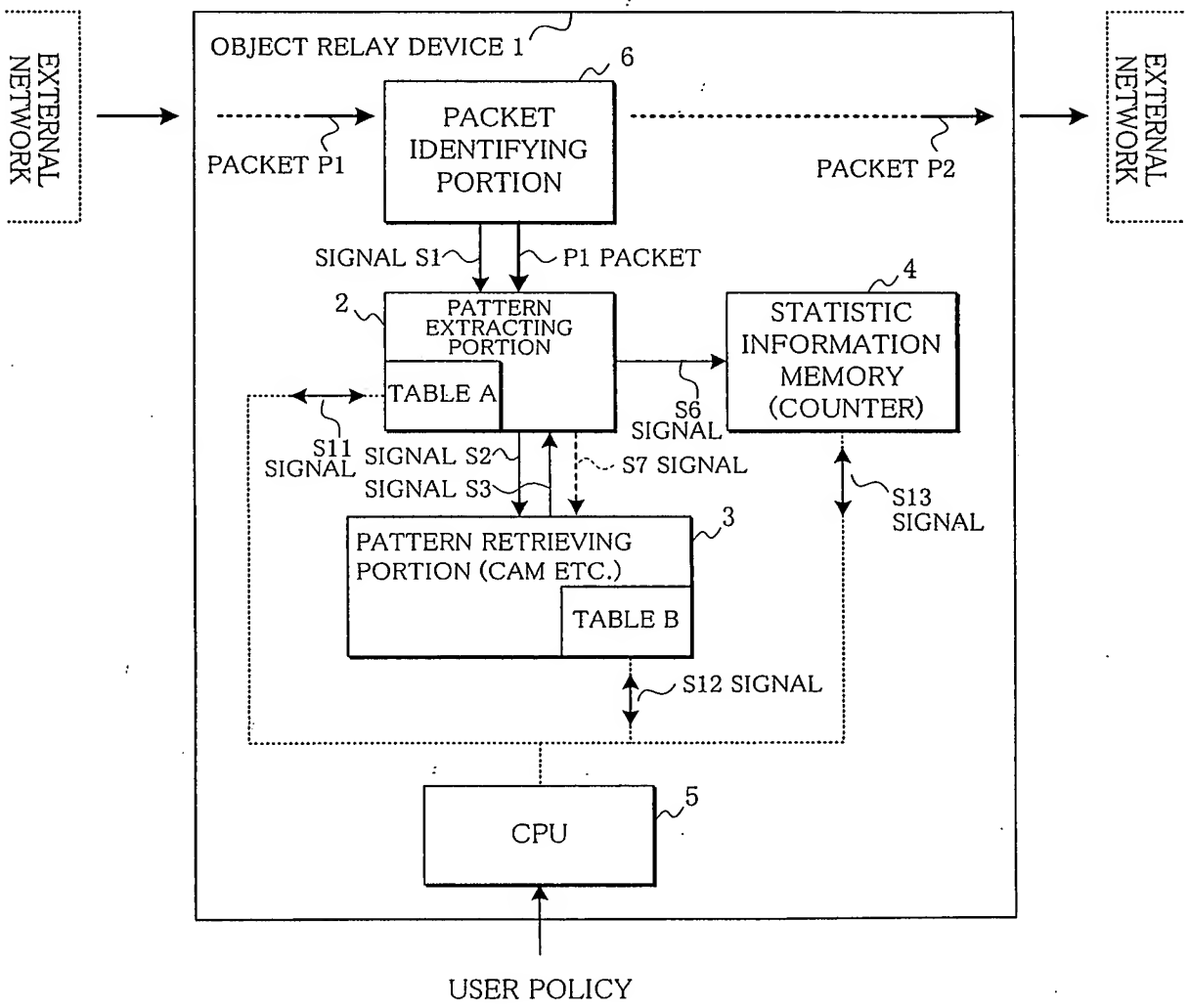
EXTERNAL NETWORK
OBJECT RELAY DEVICE 1
6
PACKET IDENTIFYING PORTION
PACKET P1
PACKET P2
EXTERNAL NETWORK
SIGNAL S1
P1 PACKET
2
PATTERN EXTRACTING PORTION
TABLE A
4
STATISTIC INFORMATION MEMORY (COUNTER)
S6 SIGNAL
S11 SIGNAL
SIGNAL S2
SIGNAL S3
S7 SIGNAL
S13 SIGNAL
3
PATTERN RETRIEVING PORTION (CAM ETC.)
TABLE B
S12 SIGNAL
5
CPU
USER POLICY

FIG.9

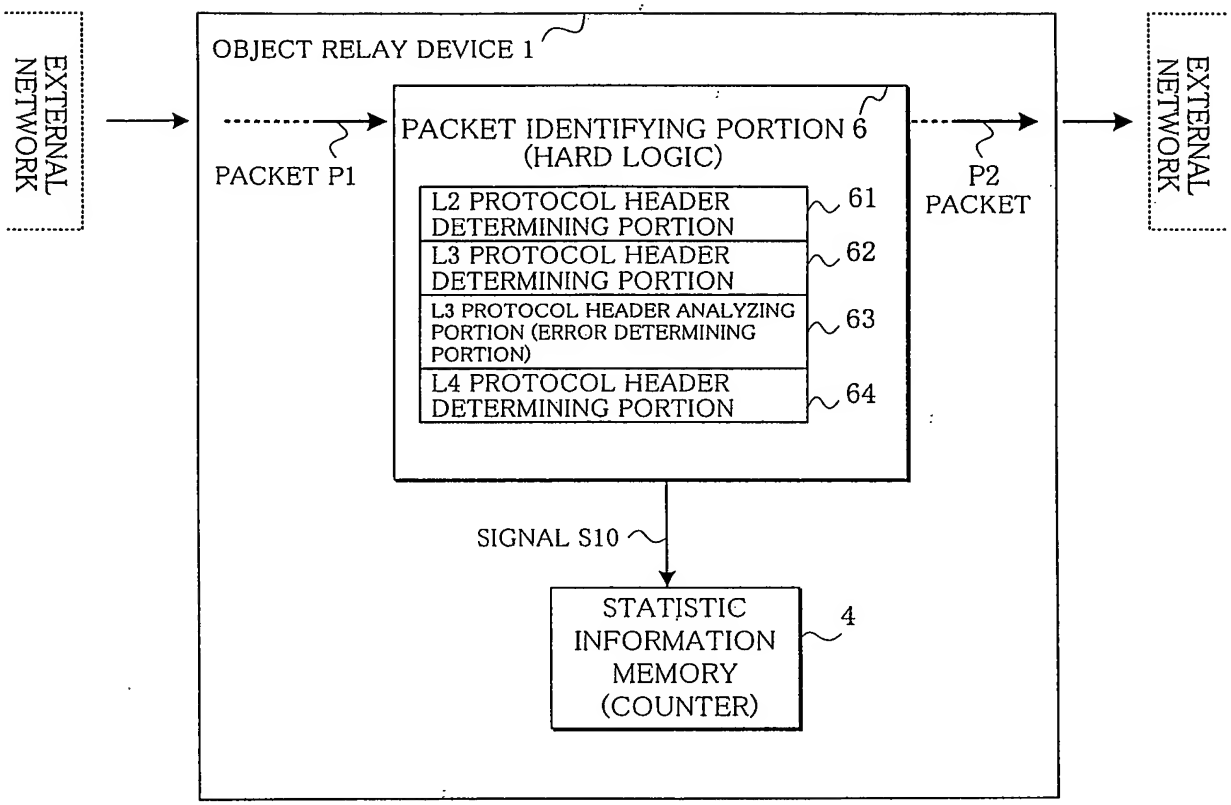
EXTERNAL NETWORK
OBJECT RELAY DEVICE 1
PACKET P1
PACKET IDENTIFYING PORTION 6
(HARD LOGIC)
L2 PROTOCOL HEADER DETERMINING PORTION
61
L3 PROTOCOL HEADER DETERMINING PORTION
62
L3 PROTOCOL HEADER ANALYZING PORTION (ERROR DETERMINING PORTION)
63
L4 PROTOCOL HEADER DETERMINING PORTION
64
P2 PACKET
EXTERNAL NETWORK
SIGNAL S10
STATISTIC INFORMATION MEMORY (COUNTER)
4

FIG.10A

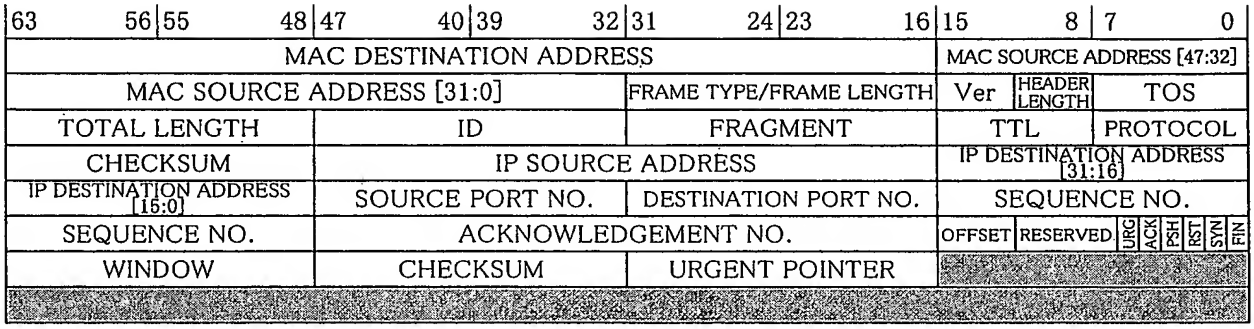

FIG.10B

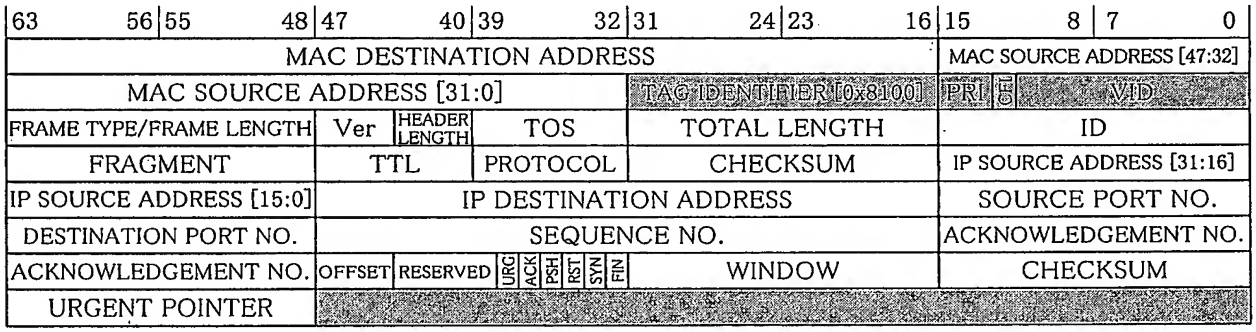

FIG.10C

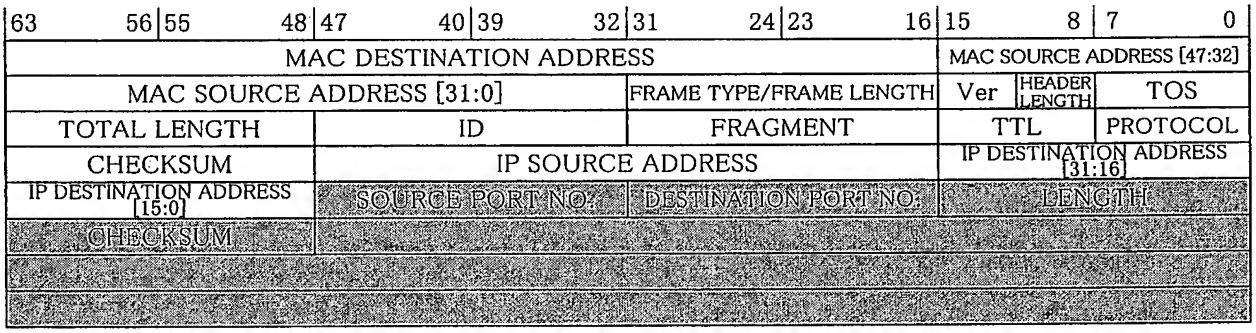

FIG.10D